tn.	8.	Repeat above procedures A, B, & C with one CAMA trunk interface unit port disconnected to verify operation with PSAP.
	b.	Repeat above procedures A, B, & C with two CAMA trunk interface unit ports disconnected to verify audio connection with PSAP.
IV.		Repeat procedure "I" above, dialing 911 extension with no information (non-DID) and automatic inclusion of default ALI information.
V.	• .	Repeat procedure "I" above during an update session between the Call Accounting system and the E-911 PC.
VI.	8.	Test alarming procedure for CAMA trunk interface unit by disconnection of CAMA trunk ports.
		*Verify that system sends alarm notification to LED and alphanumeric pager.  NA
	b.	Measure DC Voltage between tip and ring. (Maximum 55 VDC)
1/2 at 7	hio	Measure loop current between tip and ring. interfacing mit  (Maximum 23 MA)
NAON	This	(Maximum 55 VDC)  Trk1 Trk2 Trk2 (ie Cana trunk catalase  Measure loop current between tip and ring. uttracing mit  (Maximum 23 MA)  Trk1 Trk2 Trk2 Trk2 Trk1 Trk2
·	Ala	Trk 1 Trk 2 Trive
	đ.	Test alarming capabilities of CAMA Interface mux unit, when mux is installed.
		(Does not apply at this site)
	e.	Check alarm capabilities of ALI database and identify alarm notification capabilities to communicate with PC.

VII.

Repeat procedures i, testing CAMA trunk interface unit with 110V and/or - 48V power options.

NA

Contact 9-1-1 Supervision when test has completed.

(Dorothy Costro)

#### COMPLETION OF TEST:

The test was satisfactorily performed the Buglitan Place Apartments, using the test format provided by Greater Harris County Emergency Network.

Test Completed and Verified.

By: BRESLER & Docciates Date: 11/13/95

Greater Harris County Emergency

**Network Representative** 

For TCS @ 1301 Farming
By: Manique Planement
Date: 11-13-95

PROPERTY NAME	STAT	CONTACT
Woodland Parks	Pass	Monique
Forest Creek	Fail	Jorgensen
Farnham Park	Pail	Lebouef
City Plaza	Pass	Lebocuf
Metropolites	Fail	Leboeuf
Remington Crts	Pass	Glen Farik
Coopers Mill	Pass	Gien Farik
Farnham Park	Pass	LeBoeuf
Park Village	Pass	Lebocuf
Chartwell	Pass	Lebocuf
Richmond T/H	Fail	Jorgensen
Farnham Park	Fail	Leboeuf
City Plaza	Pass	Lebocuf
Coopers Mili	Pass	Glen Farik
Park Village	Pass	Leboeuf
Metro @ Uptown	Fail	Lebocuf
Chartwell	Pass	Leboeuf
Remington Court	Pass	Glon Farek
Brighton Apts.	Pass	Monique
U of Houston	Fail	Brian Dooling
U of Houston	Pass	Brian Dooling
Willowbrook Ter	Pass	Rich Hatch
Wallingford	Pass	Monique
Houston House	Fail	Jones
Houston House	Fail	Jones
Piney Point	Fail	Jorgensen

DATE	REASON	
09/27/95	Test	
09/29/95	Third Call	
	CAMA	
	Test	
	Data Base	
· · · · · · · · · · · · · · · · · · ·	Test	
	Third Call	
10/10/95	Data Base	
10/11/95	Test	
10/22/95	Test	11
10/16/95	Test	44
10/16/95	Data Base	$\bot$
10/17/95	Test	
10/26/95	Test	
11/13/95	Test	
11/20/95	Bypass	
11/27/95	Test	
11/29/95	Test	1
12/05/95	Test	
12/06/95	Various	
12/07/95	CAMA	+
1/08/96	PBX	

#### BASSLER & ASSOCIATES

#### COSTING AND ACTIVITY REPORT

#### E9-1-1 PSP/ALI ACTIVATION

#### September 3, 1996

Vanderbilt

Vanderbilt

Eagle Creek

#### **PROPERTY** STAT CONTACT NAME The Barrington Fail Glen Farik The Barrington Fail Glen Farik Fail Chestaut Hill Glen Farik Towne Lake Fail Glen Farik The Seasons Fail Gien Farik Coral Club Fail Glen Farik Lakes of 610 Fail Glen Farik Park at Lakeside Fail Glen Farik Fail Glen Farik The Parkway Timbers at Fail Glen Farik Deerbrook Piney Point Fail Gerdes **Pincy Point** Fail Slater Vanderbilt Inc Monique

#### 4 Pages

DATE	REASON	
02/08/95	Instruction	
02/09/95	Third Call	
02/10/95	Grounding	
02/16/95	Grounding	
02/21/95	Grounding	
02/27/95	Grounding	
03/01/95	Third Call	
03/03/95	Grounding	
03/07/95	Grounding	
03/09/95	Grounding	
07/19/95	Third Call	
07/20/95	Data Base	
09/01/95	Wait	
09/02/95	Wait	
09/11/95	Test	
09/27/95	Test	

Inc

Pass

Pass

Monique

Monique

Monique

PROPERTY NAME	STAT	CONTACT
Piney Polat	Fail	Jorgenson
Richmond Towne Homes	Fail	Jorgenson
Cambridge Place	Pass	Monique
Stonehaven @ Galleria	Fail	Chris Robin
Park @ Lakeside	Pass	Chris Robin
Houston House	TPass	John Jones
Metro-Uptown	Pass	James Lebouef
Carlton	Fail	James LeBoeuf
Belmont	Pass	James LeBouef
Carlton	Pass	James LeBouef
Coral Club	Pass	Chris Robin
Chestnut Hill	Pass	Chris Robin
Parkway	Pass	Chris Robin
Lakes of 610	Pass	Chris Robin
Timbers of Deerbrook	Pass	Chris Robin
Town Center	Pass	Chris Robin
Seasons Apt.	Pass	Steven Cook
Sterling Court	Pass	Steven Cook
Hastings Place	Fail	Chris Robin
Park @ Lakeside	Fail	Chris Robin
Sunbury Downs	Pass	Chris Robin
Peppermill Place	Pass	Chris Robin

DATE	REASON	
1/08/96	PBX	
1/08/96	PBX	·
1/17/96	Test	
1/24/96	Database	
2/6/96	Test	
2/12/96	Test	
3/18/96	Test	
3/19/96	Routing Table	
3/20/96	Test	
3/20/96	Test	
3/26/96	Test	
3/26/96	Test	
3/27/96	Test	
3/27/96	Test	
3/28/96	Test	
3/28/96	Test	
4/3/96	Test	
4/3/96	Test	
4/3/96	3rd CAMA	
4/3/96	2nd CAMA	
4/4/96	Test	
4/4/96	Test	
		<u> </u>

	·	
PROPERTY NAME	STAT	CONTACT
Hampton Hill	Pass	Chris Robin
Hastings Place	Fail	Chris Robin
Stone Haven	Pass	Chris Robin
Park @ Woodlake	Fail	Chris Robin
Houston House	Pass	Earl Taylor
Memorial Heights	Fail	Earl Taylor
Oaks	Pass	Earl Taylor
Memorial Heights	Pass	Earl Taylor
Richmond Townhomes	Pass	Russ Jorgensen
Cypress Lake Station	Pass	Earl Taylor
	1	

DATE	REASON	
4/18/96	Test	
4/18/96	Heat Problem	
4/24/96	Test	
4/24/96	CAMA	
5/21/96	Test	
5/21/96	CAMA	
5/22/96	Test	
5/22/96	Test	
5/23/96	Test	
5/28/96	Test	
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### STATE OF WASHINGTON MILITARY DEPARTMENT EMERGENCY MANAGEMENT DIVISION

PO Box 40955 Olympia, WA 98504-0955 Phone: (360) 459-9191 • FAX: (360) 923-4591

#### **WASHINGTON STATE E9-1-1 PROGRAM**

Maurials included for reference:

#### **EXECUTIVE SUMMARY**

The executive summary from the 1993 "PBX WORK GROUP REPORT ON THE INTERACTION OF PBXs AND KTSs WITH E-911 CALLING SERVICE". Copies of the report can be obtained from the project office by contacting Talia Langley at: desk (360) 923-4513

fax

(360)923-4519

E-Mail langley@gate.emd.wa.gov

#### PBX LEGISLATION JUSTIFICATION

Support statements relating to legislation passed in the State of Washington.

#### SUBSTITUTE SENATE BILL 5089

The legislation enacted in Washington. The section of the original bill relating to business was removed from the original bill. One requirement is to report back to the Legislature in the 1997 session on the progress of national standards with recommendations on steps to be taken if such standards have not been taken.

#### EXECUTIVE SUMMARY

This report presents the findings and recommendations of the Washington State E-911 Advisory Committee's PBX Work Group. It addresses issues associated with Private Branch Exchange (PBX) and Key Telephone System (KTS) support of Enhanced 911 (E-911) calling service. The Work Group was established with express purpose and direction. "The PBX Work Group will provide to the E911 Advisory Committee information that can be used for making legislative, procedural, or technical recommendations concerning the interaction between PBXs and E-911."

In response to the Advisory Committee's directive, the PBX Work Group held meetings with and solicited comments from a number of end-users, emergency response agencies, and local telephone companie (TCS"). Information was sought from the Washington Utilities and Transportation Commission about the number of PBX and off-premise extensions in the territories of the various LECs. Survey questionnaires were prepared and directed to customer-premise equipment vendors, emergency response agencies, and end-users (through the Northwest Chapter of the Tele-Communications Association (TCA)). And, developments in other states were monitored.

Based upon the information developed and on a draft technical bulletin prepared by the Telecommunications Industry Association (TIA) titled "PBX and KTS Support of E-911 Calling Service", the PBX Work Group determined the following:

- 1. No state or local laws or regulations mandating full E-911 compatibility of business customer-premise equipment should be imposed at this time. Once uniform national standards for the implementation of E-911 service and CPE support of it have been developed, appropriate requirements, including reasonable deadlines for compliance, should be imposed.
- 2. Owners/providers of PBXs serving customers in a multifamily residential environment should be required to
  equip, by December 31, 1995, their PBXs with the
  capability of transmitting ANI for the phones in each
  separate residential unit in a format that is
  compatible with the existing E-911 system. They should
  also be required to provide to the ALI DMS manager, or
  its functional equivalent, the following information
  subject to the limits of the NENA data record standard
  for each residential unit served by the PBX: the
  residents's name, correct street address, complex name,
  building number, apartment number, and a phone number
  that can be answered at the residential unit.

- 3. Schools should be required to equip or install by December 31, 1995, telephones with the capability of transmitting ANI or its functional equivalent in each separate school building in a format that is compatible with the existing E-911 system. They should also be required to provide to the ALI DMS Manager, or its functional equivalent, the following information subject to the limits of the NENA data record standard for each building unit/complex served by the PBX: the correct street address, school name, building number/name, school office or school security telephone number, and a phone number that can be answered in the vicinity of the calling telephone.
- PBX owners/providers that are providing communications service on a resale basis (commonly known as shared tenant services) to multiple business users from a single PBX system over a physical area larger than 25,000 by the effect, on more than one floor of a building, or in multiple buildings should be required to equip by December 31, 1995, their PBXs with the capability of transmitting ANI or its functional equivalent for the phones in each separate business unit/space in a format that is compatible with the existing E-911 system. They should also be required to provide to the ALI DMS Manager, or its functional equivalent, the following information subject to the limits of the NENA data record standard for each , business unit/space served by the PBX: the correct street address, complex name, building number, office number, business name, and a phone number that can be answered in the business unit/space.
- 5. Local laws mandating full E-911 compatibility for PBX and KTS installations should promptly be preempted by state action.
- 6. The state should work to support efforts on the federal level to establish national technical and performance standards for the interconnection of PBXs to the E-911 system. In this regard, the PBX Work Group could be reconvened on a semi-annual basis to assist and to menitor progress towards adoption of uniform national standards for E-911 service and CPE support of it. If rational standards are not developed by December 31, 1995, the E911 Advisory Committee should direct the PBX Work Group to recommend performance standards for E-911 compatibility.
- 7. Until national standards are adopted, the state should encourage PBX owners to deploy equipment and/or services that will provide accurate location

information for 911-callers, or work with local authorities to devise emergency response procedures that are mutually acceptable.

- 8. The state should encourage LECs to make services used specifically to facilitate PBX and KTS support of E-911 available to users at the lowest practical prices.
- 9. The state should mandate that all telephone systems owners advise their users of the dialing procedures necessary to access 911 service.
- 10. The state should mandate that all telephone systems owners communicate to their users the extent of automatic location identification when using E-911 service or the nature of the limitation of 911 service availability.

WASHINGTON STATE MILITARY DEPARTMENT EMERGENCY MANAGEMENT DIVISION Enhanced 9-1-1 Program

#### PBX Legislation Justification

The following comments were generated as an executive summary to the introduction of legislation in the State of Washington to address the issue of private telephone systems and the impact their utilization has on the service delivery capabilities of public safety agencies. The legislation passed in the 1995 Regular session as SSB5089. This legislation was the result of a one and one-half year study of the issues surrounding the connectivity of private telephone systems to the enhanced 9-1-1 network.

#### Specific provisions address the following iscure:

- 1. Residential Requirements that PBXs serving residential units be fully compatible by January 1, 1996 with accurate location information provided.
- 2. Schools A requirement that schools include compatibility requirements in the acquisition of any new voice systems and that they provide access to a compatible telephone when facilities are in use.
- 3. Commercial Shared Tenant Commercial shared tenant PBXs would be required to be fully compatible by January 1, 1996. The language restricts this requirement to those who actually sell services.
- 4. Uniformity Local regulation is preempted.
- 5. Education & Standards The State E911 Program is encouraged to develop educational programs for PBX owners and to assist with the development of equipment standards.
- 6. Business Labor and Industries is empowered to adopt rules to require PBX owners to notify the users of systems of the dialing procedures to reach 911 and the degree that the PBX provides location information when 911 is dialed.
- 7. Flexibility The Director of Community, Trade And Economic Development through the director of Fire Protection Services (State Fire Marshall) is empowered to adopt rules on the location information requirements for 911 systems.

This legislation is a compromise package developed to address the significant problems encountered with 911 calls from PBXs. It places the burden for employee protection on the employer for businesses, rather than attempting a blanket regulation that would be

inadequate for critical situations like apartment complexes which would be restrictive to the development of voice networks commonly used in business applications.

#### Need

There are few instances when a caller to 911 cannot relay their location verbally. However, when that happens it is generally a life or death situation. PBXs which are not interfaced provide incorrect location information when the response must be to a location far away from, or not identified with, the callers location. The task force that developed this legislation was a direct result of incidents where emergency responders were unable to provide life-saving aid because the telephone cystem supplied erroneous information.

Its provisions specifically address the problem by taking into account the capability of the owner to mitigate for the lack of full integration ຈີນ. ພາຍ ວັນເຂົ້າcad 911 system.

- 1. Residential The probability of a person in need of assistance while being alone is highest when they are home. Correct location information is assumed to be part of the system by most citizens. With some tenant service providers including provisions for correct automatic location information in their systems it becomes a promotion of effective competition to require that all providers have an equal service level as is required by this legislation.
- 2. Schools Schools were noted to be a specific problem area where the issue was not that the phone systems did not interface, which most did not, but rather that the phone systems were old and provided very limited access to telephones. Because of the limited access it did not appear that much would be gained by requiring upgrading of the existing equipment, particularly when new systems were being planned by many Districts. However, there was a clear need to have phones available to persons when the facilities are in use. this can be accomplished with the placement of pay telephones or restricted access local exchange carrier provided phones at appropriate locations.
- 3. Commercial Shared Tenant This type of service is generally used in high rise buildings where a PBX used to sell services to a variety of businesses throughout the building. These are similar to residential with the exception that there are many cases where the various businesses are closely associated or under the umbrella of a common control company who, although reselling services for accounting purposes, does have an overall responsibility for the safety of the employees.
- 4. Uniformity Many local governments have, or are, adopting regulations to address the incompatibility problem. Because these vary in provisions and applicability they are difficult to comply with when a business network is used in diverse locations. Uniformity will allow large system owners to plan and

inadequate for critical situations like apartment complexes which would be restrictive to the development of voice networks commonly used in business applications.

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- 4. Uniformity Many local governments have, or are, adopting regulations to address the incompatibility problem. Because these vary in provisions and applicability they are difficult to comply with when a business network is used in diverse locations. Uniformity will allow large system owners to plan and

implement system wide solutions to the problem.

- 5. Education & Standards Educating the business community of the issue and assisting them to develop mitigation programs is clearly one of the most effective ways to address the situation. It was noted that the State E911 program is essentially tasked to assist counties and the business community felt that it was appropriate that the state program be clearly allowed to work this issue on a universal basis. One of the problems with mandating compatibility was that there were no standards for telephone systems currently in place either by standards setting bodies or mandated by the Federal communications Commission. Again, it was felt that the state E911 office be tasked with being actively involved to develop appropriate standards which would allow the purchasers of telephone systems to better protect their investment.
- 6. Business Due to the employer/employee relationship the most appeared to be the to address the compatibility issues in a business environment appeared to be the empowerment of the Department of Labor and Industries to require labeling of phones and similar measures that will mitigate the situations while taking into account the unique situation of each business environment.
- 7. Flexibility The definition of how accurate location information must be is facility and operationally dependant. Because of the need for this flexibility the determination of rules for adequacy determination is provided for by having this be a function of the fire marshal's office where similar regulations are widely utilized to protect life safety.

#### CERTIFICATION OF ENROLLMENT

#### SUBSTITUTE SENATE BILL 5089

54th Legislature 1995 Regular Session

Passed by the Senate April 19, 1995 YEAS 42 NAYS 0

#### President of the Senate

Passed by the House April 5, 1995 YEAS 96 NAYS 0

#### Speaker of the House of Representatives

Approved

#### CERTIFICATE

I, Marty Brown, Secretary of the Senate of the State of Washington, do hereby certify that the attached is **SUBSTITUTE SENATE BILL 5089** as passed by the Senate and the House of Representatives on the dates hereon set forth.

Secretary

FILED

Governor of the State of Washington

Secretary of State State of Washington

- 1 this condition, information-forwarding requirements should be mandated
- 2 for only those settings with the most risk, including schools,
- 3 residences, and some business settings.
- Sec. 2. RCW 80.04.010 and 1991 c 100 s 1 are each amended to read as follows:
- As used in this title, unless specifically defined otherwise or unless the context indicates otherwise:
- "Automatic location identification" means a system by which information about a caller's location, including the seven-digit number or ten-digit number used to place a 911 call or a different seven-digit number or ten-digit number to which a return call can be made from the public switched network, is forwarded to a public safety answering point for display.
- "Automatic number identification" means a system that allows for the automatic display of the seven-digit or ten-digit number used to place a 911 call.
- "Commission" means the utilities and transportation commission.
- "Commissioner" means one of the members of such commission.
- "Competitive telecommunications company" means a telecommunications company which has been classified as such by the commission pursuant to RCW 80.36.320.
- "Competitive telecommunications service" means a service which has been classified as such by the commission pursuant to RCW 80.36.330.
- "Corporation" includes a corporation, company, association or joint stock association.
- 26 "Person" includes an individual, a firm or partnership.
- "Gas plant" includes all real estate, fixtures and personal property, owned, leased, controlled, used or to be used for or in connection with the transmission, distribution, sale or furnishing of natural gas, or the manufacture, transmission, distribution, sale or furnishing of other type gas, for light, heat or power.
- "Gas company" includes every corporation, company, association, joint stock association, partnership and person, their lessees, trustees or receiver appointed by any court whatsoever, and every city or town, owning, controlling, operating or managing any gas plant within this state.
- 37 "Electric plant" includes all real estate, fixtures and personal 38 property operated, owned, used or to be used for or in connection with

1 to a public safety answering point for 911 calls originating from 2 station lines served by a private switch system.

"Radio communications service company" includes every corporation, company, association, joint stock association, partnership, and person, their lessees, trustees, or receivers appointed by any court, and every city or town making available facilities to provide radio communications service, radio paging, or cellular communications service for hire, sale, or resale.

"Telecommunications company" includes every corporation, company, association, joint stock association, partnership and person, their lessees, trustees or receivers appointed by any court whatsoever, and every city or town owning, operating or managing any facilities used to provide telecommunications for hire, sale, or resale to the general public within this state.

"Noncompetitive telecommunications service" means any service which has not been classified as competitive by the commission.

"Facilities" means lines, conduits, ducts, poles, wires, cables, cross-arms, receivers, transmitters, instruments, machines, appliances, instrumentalities and all devices, real estate, easements, apparatus, property and routes used, operated, owned or controlled by any telecommunications company to facilitate the provision of telecommunications service.

"Telecommunications" is the transmission of information by wire, radio, optical cable, electromagnetic, or other similar means. As used in this definition, "information" means knowledge or intelligence represented by any form of writing, signs, signals, pictures, sounds, or any other symbols.

"Water system" includes all real estate, easements, fixtures, personal property, dams, dikes, head gates, weirs, canals, reservoirs, flumes or other structures or appliances operated, owned, used or to be used for or in connection with or to facilitate the supply, storage, distribution, sale, furnishing, diversion, carriage, apportionment or measurement of water for power, irrigation, reclamation, manufacturing, municipal, domestic or other beneficial uses for hire.

"Water company" includes every corporation, company, association, joint stock association, partnership and person, their lessees, trustees or receivers appointed by any court whatsoever, and every city or town owning, controlling, operating, or managing any water system for hire within this state: PROVIDED, That for purposes of commission

NEW SECTION. Sec. 3. A new section is added to chapter 80.36 RCW to read as follows:

By January 1, 1997, or one year after enhanced 911 service becomes 3 available or a private switch automatic location identification service 4 approved by the Washington utilities and transportation commission is 5 available from the serving local exchange telecommunications company, 6 whichever is later, any private shared telecommunications services provider that provides service to residential customers shall assure 8 that the telecommunications system is connected to the public switched 9 network such that calls to 911 result in automatic location 10 identification for each residential unit in a format that is compatible 11 with the existing or planned county enhanced 911 system. 12

NEW SECTION. Sec. 4. A new section is added to chapter 28A.150 RCW to read as follows:

By January 1, 1997, or one year after enhanced 911 service becomes 15 available or a private switch automatic location identification service 16 17 approved by the Washington utilities and transportation commission is available from the serving local exchange telecommunications company, 18 whichever is later, all common and public schools located in counties 19 that provide enhanced 911 service shall provide persons using school 20 facilities direct access to telephones that are connected to the public 21 switched network such that calls to 911 result in automatic location 22 identification for each telephone in a format that is compatible with 23 24 the existing and planned county enhanced 911 system during all times that the facility is in use. Any school district acquiring a private 25 26 telecommunications system that allows connection to the public switched network after January 1, 1997, shall assure that the telecommunications 27 system is connected to the public switched network such that calls to 28 29 911 result in automatic location identification for each telephone in a format that is compatible with the existing or planned county 30 31 enhanced 911 system.

NEW SECTION. Sec. 5. A new section is added to chapter 80.36 RCW to read as follows:

By January 1, 1997, or one year after enhanced 911 service becomes available or a private switch automatic location identification service approved by the Washington utilities and transportation commission is available from the serving local exchange telecommunications company,

1

2

- 1 forward automatic location identification and automatic number
- 2 identification.
- NEW SECTION. Sec. 10. A new section is added to chapter 38.52 RCW to read as follows:
- 5 The state enhanced 911 coordination office and the enhanced 911
- 6 advisory committee may participate in efforts to set uniform national
- 7 standards for automatic number identification and automatic location
- 8 identification data transmission for private telecommunications systems
- 9 and private shared telecommunications services. The enhanced 911
- 10 advisory committee shall report to the legislature by January 1, 1997,
- 11 the progress of such standards development and shall make
- 12 recommendations on steps to be taken if such standards have not been
- 13 adopt ad.
- 14 Sec. 11. RCW 43.63A.320 and 1993 c 280 s 69 are each amended to
- 15 read as follows:
- 16 Except for matters relating to the statutory duties of the director
- 17 of community, trade, and economic development which are to be carried
- 18 out through the director of fire protection, the board shall have the
- 19 responsibility of developing a comprehensive state policy regarding
- 20 fire protection services. In carrying out its duties, the board shall:
- 21 (1) Adopt a state fire protection master plan;
- 22 (2) Monitor fire protection in the state and develop objectives and
- 23 priorities to improve fire protection for the state's citizens;
- 24 (3) Establish and promote state arson control programs and ensure
- 25 development of local arson control programs;
- 26 (4) Provide representation for local fire protection services to
- 27 the governor in state-level fire protection planning matters such as,
- 28 but not limited to, hazardous materials;
- 29 (5) Recommend to the director of community, trade, and economic
- 30 development rules on minimum information requirements of automatic
- 31 location identification for the purposes of enhanced 911 emergency
- 32 service:
- 33 (6) Seek and solicit grants, gifts, bequests, devices, and matching
- 34 funds for use in furthering the objectives and duties of the board, and
- 35 establish procedures for administering them;
- ((-(6))) Promote mutual aid and disaster planning for fire
- 37 services in this state;

- 1 NEW SECTION. Sec. 13. Section 11 of this act is necessary for the
- 2 immediate preservation of the public peace, health, or safety, or
- 3 support of the state government and its existing public institutions,
- 4 and shall take effect July 1, 1995.

--- END ---

#### PBX laws in various states

#### Colorado

The Colorado Public Utilities Commission rules for telecommunications services require resellers of basic local exchange service who use a private branch exchange switch to deliver automatic number identification for each extension.

#### Illinois

The Illinois 9-1-1 law, 50 ILCS 750, was amended in September, 1994 to deal with private switch service. It defines two types of service; residential and business. It requires all residential providers to be compatible with 9-1-1 by June 30, 1995, providers of new and replacement business switch service to be compatible by June 30, 1995, and all private business switch providers to be in compliance by June 30, 1999.

#### Mississippi

Mississippi law requires that by December 31, 1993, shared tenant service operators provide the location and telephone number information for each and every extension or user to the enhanced 9-1-1 service provider. It is the responsibility of the shared tenant service operator to maintain the data on such system. Service suppliers of centrex telephone service must cause the actual location of all extensions operating in this service to be displayed at the PSAP whenever a 911 call is placed.

#### Texas

Texas law defines a business service user as a business service that provides telecommunications service, including 9-1-1 service, to residential end users through a private telephone switch, requires that business service users provide equivalent 9-1-1 service as is provided to residential customers of local exchange carriers, and establishes mechanisms to collect the appropriate 9-1-1 fees.

#### Vermont

Vermont law (Public Law 197), effective July 1, 1994, has a PBX requirement, which may be waived on an individual case basis according to rules to be promulgated by the Vermont Enhanced 911 Board.

#### Washington

The Washington legislation defines ALI, ANI and private switch ALI. It requires that residential and shared business PBX owners work with E9-1-1 by January 1, 1997, except businesses in areas of 25,000 square feet or less or on one floor or one building. Schools are required to provide 9-1-1 compatible telephones where buildings are in use. The law preempts local regulations to promote consistent regulation.

#### RECENT SURVEY OF SAMPLE 9-1-1 CENTERS

In January of 1996, a joint APCO (Association of Public-Safety Communications Officials) NENA (National Emergency Number Association) survey was sent to 88 9-1-1 centers. Responses were received from 35 agencies (40% return rate). Based on responses to this survey, there are an estimated 190,000,000 9-1-1 calls per year. about 4.5% of these calls come from PBXs (Private Branch Exchanges). That equates to about 8,000,000 PBX 9-1-1 calls per year

About 75% of the respondents reported problems in the last six months from: "hang-ups", unknown location or lack of precise location. Problem areas cited include: School Districts, banks, car rental agencies, and residential PBXs.

#### **EXAMPLES OF PROBLEMS -**

Apopka, Florida -

Motel had to be searched room-by-room to find a heart attack victim. Location was not available on the 9-1-1 call placed through a PBX.

Beech Grove, Indiana -

9-1-1 calls from Amtrak train office (downtown Indianapolis) are routed to a 9-1-1 center in the suburbs.

• Colorado Springs, Colorado

PBX 9-1-1 call from branch bank during a robbery; several minutes response delay because wrong location displayed.

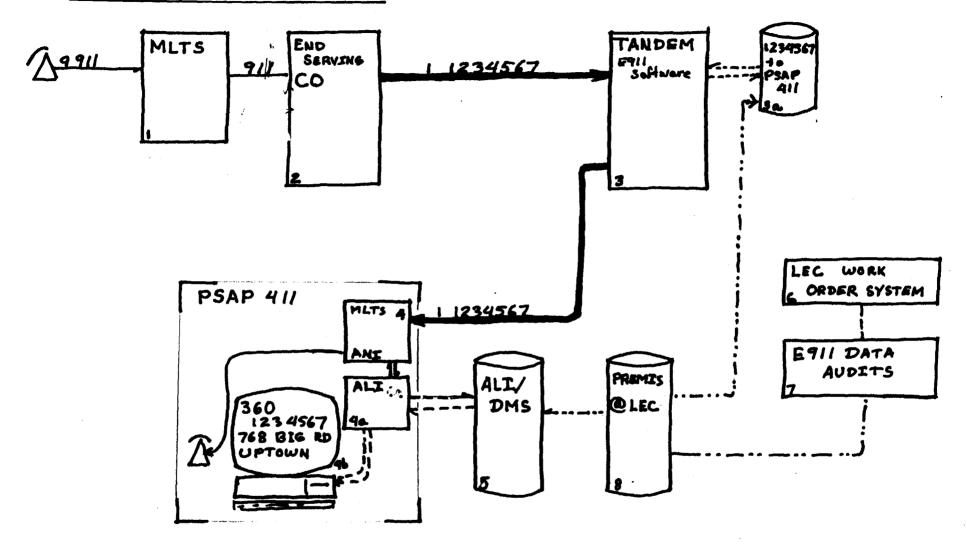
Dupage County, Illinois -

Large warehouses identified instead of specific locations.

Fire Department was sent to the wrong school building when a bomb threat was received on a PBX 9-1-1 call.

• Fairfax County, Virginia -

Residential PBX service, using a 3rd party notification system, has created ongoing address location and response delay problems.



Beb Cenning

## PRIVATE SWITCH 9-1-1 SERVICE IMPLEMENTATION HANDBOOK



Compiled By

**GREATER HARRIS COUNTY 9-1-1 EMERGENCY NETWORK** 

With The Concurrence Of

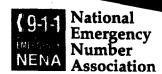
SOUTHWESTERN BELL TELEPHONE COMPANY

# E 9-1-1 Data Base Guide

by Beth Ozanich Susan Johnston William H. Lucy Karen Perryman

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